BRUHATH BANGALORE MAHA NAGAR PALIKE

Comprehensive Development of Roads, Drains, Special repairs to buildings and other works in Sunnadagoodu, Ambedkarnagar, Mohan Kumar nagar, Poornapura, Ramabhovi Colony, Jalahalli Harijana, Siddarthanagar, Khathanagar, Ashrayanagar, Karadigudi, Peenya 4th block A K Colony and Surrounding areas of Slums in R R Nagar Constituency under PACKAGE-2019-20 RRN-DIV-(13).

Sl.No	Type Of Works	Esti Cost
1	Borewell and Solar Work	2,70,91,004.00
2	Civil And UGD Work	4,92,86,045.52
3	Outdoor Gym in J P Park	37,16,379.00
4	Outdoor Gym in Jalahalli School	17,18,808.00
5	Construction of Hamam	15,12,021.86
	Sub Total Cost	**8,33,24,258.38**
	Add 5 % TP	**41,66,212.92**
	Add 12 % GST	**1,04,98,856.56**
	Detailed Project Report 1 %	**10,00,000.00**
	Project Management Consultants 1 %	**10,00,000.00**
	Misc And Unseen Charges	**10,672.14**
	Total Estimate Cost	**10,00,00,000.00**

TECHNICAL SANCTION
Rs: 10 00 00000/- (Rs Ten Crore only) is accorded under the head: P-3744
C.M.N.N.
By CE(R.R.N.), P.N.160-161
Registered as CE (R.R.N) No: 618/19-20 subject to conditions contained in enclosed memo No: 618/19-20 Date. 02/03/2020
TA, CE (R.R.N.)

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ರಾಜರಾಜೇಶ್ವರಿನಗರ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಬೆಂಗಳೂರು - 560 054
ನಂ.: 247 ದಿನಾಂಕ: 26/2/2020
ರೂ. 10,00,00,000/- (Ten Crore only)
ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ರಾಜರಾಜೇಶ್ವರಿನಗರ ವಿಭಾಗ
ಬೃ.ಬ.ನ.ಮ.ಪಾ. ಬೆಂಗಳೂರು-72

BRUHAT BANGALORE MAHANAGARA PALIKE

omprehensive Development of Roads, Drains, Special repairs to buildings and other works in Sunnadagoodu, nbedkarnagar, Mohan Kumar nagar, Poornapura, Ramabhovi Colony, Jalahalli Harijana, Siddarthanagar, athanagar, Ashrayanagar, Karadigudi, Peenya 4th block A K Colony and Surrounding areas of Slums in R R Nagar Constituency under PACKAGE- 2019-20 RRN-DIV-(13).

Description of Item	Unit	No	length in m	Width in m	Depth in m	Quantity	Rate in Rs	Amount in Rs
Borewell For Sidartha Nagar slum								
Geophysical investigation of site for Sinking borewell for supplying drinking water to the habitations either through the hand pump,MWS,P.W.S.S by vertical electrical sounding by adpoting venner or Schlumberger's method,including reconnaissance survey of Geological formation. Geophysical investigation of existing ground indecundity its quality & acceptability of the users indicating the location of site,recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 metre inconsolidated formation for proper seating of casing pipe,depth of drilling required to cover full depth of aquifer proposed to be tapped,probable yield and other information required including transportation of instrument and accesories to work site,engaging technical personal and labour required etc.,(Issue rate as on date 02/05/2019 It.13.04)								
	No	12				12.00	3768.00	45216.00
Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burden upto 20 M fixing of casing pipes, collars and cap with necessary cutting and threading including transportation of rig and supporting vehicals, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour .(excluding cost of casing pipes, collars, cap ect.) (Issue rate as on date 02/05/2019 It.13.01)								
0 to 50 m	Rmt	12	50.00			600.00	347.00	208200.00
50 to 100 m	Rmt	12	50.00			600.00	442.00	265200.00
100 to 150 m	Rmt	12	50.00			600.00	456.00	273600.00
150 to 200 m	Rmt	12	50.00			600.00	536.00	321600.00
200 to 250 m	Rmt	12	50.00			600.00	634.00	380400.00
250 to 300 m	Rmt	12	50.00			600.00	700.00	420000.00
300 to 350 m	Rmt	12	50.00			600.00	825.00	495000.00
350 to 400 m	Rmt	12	50.00			600.00	900.00	540000.00
400 to 420 m	Rmt	12	20.00			240.00	1129.00	270960.00
Providing and fixing **250mm dia PVC (casing pipe)** (page no.XXXI, SL no.909) (KPWD SR 2016-17)								
	Rmt	24	6.00			144.00	2600.00	374400.00
Supply of ISI Mark **175mm** nominal Bore, Plain end **steel casing Pipe**-grade of steel Fee 4100 of wakk thickness 504mm thick confirming to IS 4270:2001 and latest amendments, electric resistance welded steel electric or basic oxygen process in fandom length of 5 to 7mtr. Both ends threaded confirming to Is554/1985 one end fixed with socket confirming to IS 270:2001 and other end with screwed pipes. All pipes shall be reasonably free from defectes. The tubes shall be resonably straigth should be with ISI Marking Weighting 25.10 kg/mtr (Inclusive of all taxes and durties) Prices include Collar - medium duty. (Page No.III,It no.84)PRED SR 2012-13.								
	Rmt	12	50.00			600.00	1325.00	795000.00
Providing **175mm Dia M.S. Collar** (P.No.iii,I.No.86) PRED SR 2012-13								

Description of Item	Unit	No	length in m	Width in m	Depth in m	Quantity	Rate in Rs	Amount in Rs
	No	100				100.00	150.00	15000.00
Providing **175mm dia Bore Cap** CE (M) (P.No.iii,I.No.85) PRED SR 2012-13								
	No	12				12.00	100.00	1200.00
Atalanta suguna CRI **KIRLOSKAR** and other equipments **pumps** 10.00 **HP/7.5 KV (20 stage)** (Pg No. XLI. Sl.no.29) KPWD SR-2018-19								
	No	12				12.00	49955.00	599460.00
Providing and fixing in trenches **galvinised/mild steel tube 50mm dia nominal bore** with all fittings (earth work in trenches to be measured and paid for seperately) including cost of all materials, labour charges,HOM of equipment and testing complete as per specifications. Specification No. KBS 13.2.14/13.6 (page no.92/It no.13.15)KPWD SR 2018-19.								
Basic rate	388.00							
A.W @ 6%	23.28							
Total	**411.28**							
	Rmt	12	370.00			4440.00	411.28	1826083.00
Supplying and drawing **3 core flat PVC** sheathed submersible **pump cable** maufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 to IS 8130-1984 and virgin grade PVC insulation and power coating extruded PVC sheathed suitable for working voltage upto 1100 volts with specified IS 694:1990 and confirming to the attwached GTP of group A 3CX4.0 sq.mm (PWD Ele SR 2014-15,P-12/It-2.10.3)								
Add 5mts for Switching	Rmt	24	375.00			9000.00	126.70	1140300.00
Providing and fixing in position **50mm Nominal bore non-return valve** vertical type of approved make including cost of all materials,labour and HOM of equipment with all leads complete as per specifications.(PWD SR 18-19,P-95/It no.13.62)								
Basic rate	1269							
A.W @ 6%	76.14							
Total	**1345.14**							
	No	12				12.00	1345.14	16142.00
Spplying and fixing **50mm GI Union.**(PWD SR 2018-19,P-XXXIX)								
	No	12				12.00	223.70	2684.00
Spplying and fixing **50mm GI Elbow.**(PWD SR 2018-19,P-XXXIX)								
	No	12				12.00	111.80	1342.00
Spplying and fixing **50mm GI Nipple.**(PWD SR 2018-19,P-XXXIX)								
	No	12				12.00	104.30	1252.00
Spplying and fixing **50mm GI Hose colleres**(PWD SR 2018-19,P-XXXIX)								
	No	744				744.00	103.00	76632.00
Supplying and fixing 20" x 20" x 2.5" polished **wood board** made of not less than 15mm thick plank on both the sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc., P.no.44 / I no. 6.6.6 KPWD ELE SR 2019-20								
	No	12				12.00	302.00	3624.00
Supplying and fixing miniature circuit breakers on existing **MCB distribution board** using necessary fixing materials and 'C' type curve indicator ON/OFF energy cross-3 with short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.(PWD Ele SR 2019-20,P-47/Sl no.6.16.6) 40-63 Amps								
	No	12				12.00	1936.00	23232.00

Description of Item	Unit	No	length in m	Width in m	Depth in m	Quantity	Rate in Rs	Amount in Rs
Supplying of TPST with rewirable porcelain channels in SM encloser made out of 14 SWG powder coated point of approved colour 32 amps (PWD Ele SR 2019-20,P-24,It-5.5.1)	No	12				12.00	1800.00	21600.00
Supplying and fixing LED type panel board indicating lamp with required colour suitable for 220 V AC 50 HZ 12/24 V DC(PWD Ele SR 2019-20,p-29,Sl no.5.38)	No	12				12.00	430.00	5160.00
Suppling fully automatic star delta starter unit push button type with suitable wires 2 conductors and adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts phase and wired after fixing to the existing wooden board for motor. upto 12.5HP(PWD Ele SR 2019-20,p-24,Sl no.-5.2.1)	No	12				12.00	6400.00	76800.00
Supplying and fixing single phase preventer using necessary wires over an existing panel board suitable for motar up to 20 HP capacities.(PWD Ele SR 2019-20,p-44/Sl no.5.3)	No	12				12.00	745.00	8940.00
Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade multistrand copper conductor single core wire in open or concealed system of wiring as per IS 694:1990 & conforming to the attached GTP of group A. 4 sqmm (PWD Ele SR 2019-20,p-6,It-2.3.4(d)	Mtrs	12	20.00			240.00	45.00	10800.00
Supplying fixing and wiring heavy duty low voltage capacitors conforming to IS 2834 phase 400/440 volts grade, for power factor improvement of rotating machinery.(PWD Ele SR 2019-20,p-29/Sl no.5.37)	No	48				48.00	400.00	19200.00
Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cotouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit... The pit should be filled with equal proprotion of salt and charcoal 150mm alround the pipe to complete depth. The connection from the to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia (PWD Ele SR 2019-20,p-40,Sl no.6.1)	No	12				12.00	2999.70	35996.00
Digging of trench of 0.36mtrs deepx0.5 mtrs wide refilling the trench to the required gorund level and consolidating etc., complete (PWD Ele SR 2019-20,p-41,It-6.6.2) hard soil	Mtrs	12	8.00			96.00	102.00	9792.00
Supplying laying 1.1 KV class LT UG cable having aluminium conductor PVC insulated extruded inner shethed galvanised steel strip (excep 2cx 10 sqmm wire armoured) confirming to IS-3975:1990 (No. of strip indicated in GTP) and extruded PVC outer sheathed armoured cable with specified IS-1554,part-1:1988 and confirming to the attached GTP of group A 4 core 16 sq mm PWD Ele SR 2019-20,p-40,It-6.4.4)	Mtrs	12	10.00			120.00	150.00	18000.00
Labour charge for laying 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe/ on wall / on poles as required in existing trench/duct. 6 sq mm to 16 sq mm(PWD Ele SR 2019-20,p-41,It-6.5.1)	No	12	25.00			300.00	11.88	3564.00

Description of Item	Unit	No	length in m	Width in m	Depth in m	Quantity	Rate in Rs	Amount in Rs
plying and fixing class-A(medium duty) GI pipe wall thickness not less then 3.25mm on e/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1KV class nm(PWD Ele SR 2019-20,p-41,It-6.9.1)								
	Rmt	12	2.00			24.00	335.00	8040.00
pplying and fixing LT cast iron pot heads suitable for 1.1KV class UG cable filled with necessary umen / insulating compound complete with terminals,clamps bolts and nuts and washer etc.,complete 16 sq mm as per specifications.(PWD Ele SR 2019-20,p-42,It-6.10.2)								
	No	12				12.00	270.00	3240.00
pplying and fixing porcelain fuse channel with cut out on the existing wooden block and wiring mplete 63 amps(PWD Ele SR 2019-20,p-25,It-5.7.3)								
	No	36				36.00	227.00	8172.00
ismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to eces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of smantled materials upto a lead of 1000 meters, stacking serviceable and unserviceable materials perately complete as per specifications. MORTH Specification No. 202 (KPWD SR 2018-19, P-140, 18.47)								
Basic rate	899.00							
A.W @ 6%	53.94							
Total	**952.94**							
Block 1								
Main line 1	Cum	12	171	0.45	0.20	184.37		
House Connection		241	10.00	0.45	0.20	216.90		
						401.27	952.94	382388.00
Earthwork excavation for foundation of buildings, **water supply**, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, **in hard soil** not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(b) / 2.3.5 (KPWD SR 2018-19, P-6, It-2.4)								
Basic rate	449.00							
A.W @ 6%	26.94							
Total	**475.94**							
Block 1								
Main line 1	Cum	12	171	0.45	0.30	276.5584458		
House Connection		241	10.00	0.45	0.30	325.35		
						601.91	475.94	286472.00
Providing and fixing **Chorinated Poly Venyl Chloride (CPVC) pipes** conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (external work) - **50mm nominal** OD pipes (KPWD SR 2018-19, P-99, It-13.87.6)								
Basic rate	432.00							
A.W @ 6%	25.92							
Total	**457.92**							
Block 1								
Main line 1	Mtr	12	171			2048.58		
						2048.58	457.92	938086.00

Description of Item	Unit	No	length in m	Width in m	Depth in m	Quantity	Rate in Rs	Amount in Rs
aking connection of **G.I.distribution** branch with G.I.main of 25mm to 40mm. Nominal bore, cluding cutting and threading the pipes,providing and fixing Tee, nuts,labour for all item of orks,testing and HOM of equipments complete as per specifications. (P.No.93/ I.No. 13.20 of KPWD R 2018-19)								
Basic rate	483.00							
A.W @ 6%	28.98							
Total	**511.98**							
louse Connection	Each	241				241.00	511.98	123387.00
Providing and fixing **Chorinated Poly Venyl Chloride (CPVC) pipes** conforming to IS 15778 having hermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this ncludes jointing of pipes and fittings with one step solvent cement, trenching, refilling & testing of oints complete. (external work). - **20mm nominal** OD pipes (KPWD SR 2018-19, P-98, It-13.85.2)								
Basic rate	157.00							
A.W @ 6%	9.42							
Total	**166.42**							
Distribution line	Mtr	241	10.00			2410.00		
Tap Connection		241	1.00			241.00		
						2651.00	166.42	441179.00
Providing and fixing to wall, ceiling and floor **Medium density polyethylene pipes** 6.00 kgf/sq.cm working pressure **25mm outside diameter** with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.15.1 / 13.9 (KPWD SR 2018-19, P-95, It-13.67)								
Basic rate	129.00							
A.W @ 6%	7.74							
Total	**136.74**							
for other Purposes	Mtr	12	250.00			3000.00		
For Solar		250.00	20			5000.00		
						8000.00	136.74	1093920.00
KSRB 2-4 : **Refilling available around earth pipe lines**,cables in layers mot exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. And lift upto 1.5m. Including cost of all labour complete as per specifications.(KPWD SR 2018-19, P-7, it-2.11)								
Basic rate	121.00							
A.W @ 6%	7.26							
Total	**128.26**							
70% of Qty Vide item No.31	Cum					421.34	128.26	54041.00
Loading and unloading of stone boulder/stone aggregates/sand/kanker/ moorum. KSRRB M100-1:Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (KPWD SR 2018-19,P-136, it.17.1)								
Item No:-17.1 Loading	57.00							
Conveying for 16km	40.96							
Total	97.96							
Balance Qty Vide item No. 30+ 30% of 31 item	Cum					581.84		
						581.84	97.96	56998.00
KSRB 2-4 : Providing and fixing in position **brass gate valve** with C.I.wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials,labour and HOM of equipments with all leads complete as per specifications. (P.No.94/ I.No. 13.37 of KPWD SR 2018-19)								
Basic rate	1739.00							
A.W @ 6%	104.34							
Total	**1843.34**							

I.No	Description of Item	Unit	No	length in m	Width in m	Depth in m	Quantity	Rate in Rs	Amount in Rs
	For Main Line	Each	12				12.00	1843.34	22120.00
39	KSRB13-6.2-1 : Providing and fixing in position **brass stop cock** of approved quality 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3 (Pg No.-93/I.No.-13.26 of KPWD SR 2018-19 2018-19)								
	Basic rate	141.00							
	A.W @ 6%	8.46							
	Total	**149.46**							
	Tap Connection	Each	241				241		
	For Solar		250.00				250		
							491.00	149.46	73385.00
40	KSRB 4-1.3 : Providing and laying in position **plain cement concrete** of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No. 4.3 of KPWD SR 2018-19)								
	Basic rate	5102.0							
	A.W @ 6%	306.12							
	Total	**5408.12**							
	Block 1								
	Main line 1	Cum	12	150.00	0.45	0.15	121.50		
	House Connection		241	10.00	0.45	0.15	162.68		
							284.18	5408.12	1536853.00
42	BESCOM deposit Charges and miscellaneous								
		No	12.00				12.00	12000.00	144000.00
43	37.54 Supplying water storage tanks made of virgin polymer (LLDPE) with two layers outer Black or Blue and inner White layer of approved quality and make, conforming to I.S.I./ISO/SSI specifications. (P.No.265, I.No.37.58 of PW, P& IWTD SR 2018-19)								
		Ltr	250.00	1000.00			250000.00	6.48	1620000.00
	Basic rate	6.00							
	Area weightage 8 %	0.48							
	Total Cost	6.48							
44	Supplying, installation, testing and commissioning of solar hot water heater comprising of solar Flat Plate Collector (FPC) of size 2120x1040x100mm and stainless steel hot water storage tank with stainless steel heat exchanger absorber made of copper sheet and copper tube of following capacity aluminium box collector with appropriate capacity electrical back up arrangement excluding inlet and out let pipes.SS Model with 100mm thick of 48Kg/M3 density Rock wool insulation with 22SWG Aluminium cladding. 200 Liter capacity I.No 8.3.2 P.No 51 & 52								
	For House	No's	250.00				250.00	48600.00	12150000.00
	Basic rate	48600.00							
	Sub Total								**27091004.00**

CIVIL QUANTITY CONSULTANTS & ENGINEERS Bangalore

Asst Engineer
Ward no-42
BBMP

Asst Executive Engineer
Yashwanthapura sub- Division
BBMP

Executive Engineer
RR Nagar Division
BBMP

BRUHAT BENGALURU MAHANAGARA PALIKE

Rajarajeshwari nagar

Comprehensive Development of Roads, Drains, Special repairs to buildings and other works in Sunnadagoodu, Ambedkarnagar, Mohan Kumar nagar, Poornapura, Ramabhovi Colony, Jalahalli Harijana, Siddarthanagar, thanagar, Ashrayanagar, Karadigudi, Peenya 4th block A K Colony and Surrounding areas of Slums in R R Nagar Constituency under PACKAGE- 2019-20 RRN-DIV-(13).

D OF ACCOUNT:

Description of Item	Unit	No.	Estimate Cost Rs. L(m)	B(m)	D(m)	Qty.	100,00,000.00 Rate(Rs)	Amount(Rs)
Part I - UGD								
KSRRB M200-24. **Dismantling** of **cement concrete pavement** by mechanical means using neumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and per specifcations. MORTH Specifcation No. 202 KPWD S.R 2018-19 Page No. 140 I.No. 18.47								
230mm dia SW pipe								
Mohan Kumar Nagar	Cum							
W0395		1	77.7	3.50	0.20	54.40		
W0385		1	80.00	4.00	0.20	64.00		
W0383		1	80.00	4.00	0.20	64.00		
W0282		1	44.00	3.75	0.20	33.00		
W0294		1	60.00	3.20	0.20	38.40		
W0292		1	56.00	3.00	0.20	33.60		
W0290		1	57.60	3.20	0.20	36.86		
W0391		1	84.00	3.50	0.20	58.80		
W0385		1	111.00	3.20	0.20	71.04		
W0282		1	110.00	3.20	0.20	70.40		
L C R School								
LCR School Road W0092		1	220.00	6.50	0.20	286.00		
I0047		1	65.00	3.50	0.20	45.50		
W0093		1	114.00	4.00	0.20	91.20		
W0086		1	36.00	4.20	0.20	30.24		
W0045		1	70.00	3.80	0.20	53.20		
W0083		1	114.00	4.00	0.20	91.20		
W0097		1	116.00	4.20	0.20	97.44		
W0098		1	75.00	4.50	0.20	67.50		
300 mm dia NP2 pipe								
W0302	Cum	1	300.00	1.50	0.20	90.00		
Basic rate		899.00						
Area Weightage 6%		53.94						
Sub Total		952.94						
Total		952.94						
						1376.79	**952.94**	**1311996.74**
2 KSRRB 300 - **Excavation for road, drains** and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 KPWD S.R 2018-19 Page No. 143 I.No. 19.1								
230mm dia SW pipe								
Mohan Kumar Nagar	Cum							
W0395		1	77.7	1.00	0.90	69.95		
W0385		1	80.00	1.00	0.90	72.00		
W0383		1	80.00	1.00	0.90	72.00		
W0282		1	44.00	1.00	0.90	39.60		

Sl. No.	Description of Item	Unit	No.	L(m)	B(m)	D(m)	Qty.	Rate(Rs)	Amount(Rs)
	W0294		1	60.00	1.00	0.90	54.00		
	W0292		1	56.00	1.00	0.90	50.40		
	W0290		1	57.60	1.00	0.90	51.84		
	W0391		1	84.00	1.00	0.90	75.60		
	W0385		1	111.00	1.00	0.90	99.90		
	W0282		1	110.00	1.00	0.90	99.00		
	300 mm dia NP2 pipe								
	W0302								
	IC Chamber		1	300.00	1.50	0.90	405.00		
	Man Hole		180	1.20	1.20	0.80	207.36		
	80x3.14x2.18x2.18x1.30 / 4 = 388.00		80		4.85		388.00		
	Deduction								
	For Manholes								
	IC Chamber		-80	2.18	1.50	0.80	-209.28		
			-180	0.60	1.00	0.80	-86.40		
	Basic rate		130.00						
	Area Weightage 6%		7.80						
	Sub Total		137.80						
	Total		137.80						
							1388.97	**137.80**	**191399.86**
3	Providing and fixing unplasticised **PVC pipes with working pressure 10 kg/sq.cm** with pipe fittings, clips, making good the floor, including cost of all materials, labour charges, HOM and testing complete as per specifications.-do- with 225mm outer dia KPWD S.R 2018-19 Page No. 77I.No. 11.56.6								
	230mm dia SW pipe	Mtr							
	Mohan Kumar Nagar								
	W0395		1	77.7			77.72		
	W0385		1	80.00			80.00		
	W0383		1	80.00			80.00		
	W0282		1	44.00			44.00		
	W0294		1	60.00			60.00		
	W0292		1	56.00			56.00		
	W0290		1	57.60			57.60		
	W0391		1	84.00			84.00		
	W0385		1	111.00			111.00		
	W0282		1	110.00			110.00		
	Deduction								
	IC Chamber		-180.00	0.45			-81.00		
	Basic rate		1909.00						
	Area Weightage 6%		114.54						
	Sub Total		2023.54						
	Total		2023.54						
							679.32	**2,023.54**	**1374632.35**
4	KSRRB M2900-1. **Plain cement concrete M10 mix** with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifcations. MORTH Specifcation No. 408. KPWD S.R 2018-19 Page No. 254 I.No. 34.1								
	300 mm dia NP2 pipe								
	W0302	Cum	1	300.00	0.50	0.15	22.50		
	230mm dia SW pipe								

	Description of Item	Unit	No.	L(m)	B(m)	D(m)	Qty.	Rate(Rs)	Amount(Rs)
	Mohan Kumar Nagar								
	W0395		1	77.7	0.50	0.15	5.83		
	W0385		1	80.00	0.50	0.15	6.00		
	W0383		1	80.00	0.50	0.15	6.00		
	W0282		1	44.00	0.50	0.15	3.30		
	W0294		1	60.00	0.50	0.15	4.50		
	W0292		1	56.00	0.50	0.15	4.20		
	W0290		1	57.60	0.50	0.15	4.32		
	W0391		1	84.00	0.50	0.15	6.30		
	W0385		1	111.00	0.50	0.15	8.33		
	W0282		1	110.00	0.50	0.15	8.25		
	Deduction								
	For Manholes		-80	2.18	0.50	0.15	-13.08		
	Basic rate		4226.00						
	Area Weightage 6%		253.56						
	Total		4479.56						
							66.44	**4,479.56**	**297640.08**
5	Providing and laying reinforced cement **concrete pipe NP2** for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of materials, labour, HOM complete as per specifications, curing complete as per specifications. Specifications. No. KSRB 1000, 2300 MOST Specification No.1000 / 2300 Page No. 255 I.No. 34.7.3								
	300 mm dia NP2 pipe	Mtr							
	W0302		1	300.00			300.00		
	Deduction								
	For Manholes		-80	2.18			-174.40		
	Basic rate		1056.00						
	Area Weightage 6%		63.36						
	Sub Total		1119.36						
	Total		1119.36						
							125.60	**1,119.36**	**140591.62**
6	KSRB 12-5.2 : Constructing **brick masonry circular type manhole** 0.91 m internal dia at bottom, 1.67 m deep and 0.56m dia at top with table moulded non-modular bricks of 50 class designation 50 in cement mortar 1:4, inside cement plastered 12mm thick with cement mortar 1:3, finished with a floating coat of neat cement, foundation concrete M 10 using 40mm and downsize granite metal and making necessary channel in cement concrete M 50 with 20mm and downsize granite metal finished with a floating coat of neat cement, with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560mm internal diametre confirming IS :12592, total weight cover and frame to be not less than 182 kg, fixed in cement concrete 1:2:4, 20mm and downsize broken granite metal, providing and removing centering, shuttering including cost of materials, labour charges, HOM of mechineries complete as per specifications. (Excavation, footrests and 12mm thick cement plaster on the external surface shall be paid seperately) Specification No. KBS 12.4KPWD S.R 2018-19 Page No. 74 I.No. 11.38								
	For 300mm	Nos							
	For Manholes		80				80.00		
	Basic rate		24284.00						
	Area Weightage 6%		1457.04						
	Sub Total		25741.04						
	Total		25741.04						
							80.00	**25,741.04**	**2059283.20**

	Description of Item	Unit	No.	L(m)	B(m)	D(m)	Qty.	Rate(Rs)	Amount(Rs)
	KSRB 12-8.1 : Constructing brick masonry inspection chamber for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS. – do – **450x450mm and 450mm** depth (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 450x450m(P.No. 76/ I.No.11.50.3 of PWD SR 2018-19)								
	For 230 mm	Nos							
	IC Chamber		180				180.00		
	Basic rate		5300.00						
	Area Weightage 6%		318.00						
	Sub Total		5618.00						
	Total		5618.00						
							180.00	**5,618.00**	**1011240.00**
8	KSRB 12-7.1 : Making connection of drain or **sewer line of size 230 to 300 mm external dia** with existing manhole including breaking into and making good the walls, floors with cement concrete M 15 with 20mm and downsize granite metal, cement plastered on both sides of mix 1:3, finished with a floating coat of neat cement, and making necessary channels for the drain, including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS KBS KPWD SR P-75 I.NO.11.48								
	Connection	Nos							
			120				120.00		
	Basic rate		3488.00						
	Area Weightage 6%		209.28						
	Sub Total		3697.28						
	Total		3697.28						
							120.00	**3,697.28**	**443673.60**
9	KSRB 12-6.1 : Providing 20mm square **M.S footrest and fixing in manhole** with M 10 cement concrete block of 20x20x10cms, using 20mm and down size metal of size including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS 12.4.6 P.No75I.NO.11.44								
	For Manholes	Nos							
			80				80.00		
	Basic rate		276.00						
	Area Weightage 6%		16.56						
	Sub Total		292.56						
	Total		292.56						
							80.00	**292.56**	**23404.80**
10	Providing and fixing to wall, ceiling and floor unplasticised PVC 6.00 kgs/sqcm working pressure with pipe fittings, wall clips etc., and making good the wall, ceiling and floor for sanitary pipelines including cost of all materials, labour charges, HOM of acquirements and testing complete as per specifications. - 110mm dia KPWD SR P-90 I.NO.12.116.1								
	From Induvisal House	M							

	Description of Item	Unit	No.	L(m)	B(m)	D(m)	Qty.	Rate(Rs)	Amount(Rs)
			250	3.00			750.00		
	Basic rate		434.00						
	Area Weightage 6%		26.04						
	Sub Total		460.04						
	Total		460.04						
							750.00	**460.04**	**345030.00**
11	KSRB 2-4 : **Refilling available earth** around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifcations.KPWD S.R 2018-19 Page No. 7 I.No. 2.11								
	Ugd Filling								
	60 % of Earth Work	Cum							
	Basic rate		121.00				833.38		
	Area Weightage 6%		7.26						
	Sub Total		128.26						
							833.38	**128.26**	**106889.46**
12	KSRRB M100-1 **Loading and Unloading of Stone Boulder** / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifcations. MORTH -100/ Chapter 1 KPWD S.R 2018-19 Page No. 136 I.No. 17.1								
	Dismalting + EW-Refilling								
	16 Km	Cum	75 % Qnty				1932.38		
	Basic rate		97.96						
	Sub Total		97.96						
	Total		97.96						
							1932.38	**97.96**	**189295.53**
13	KSRRB 400-2. Providing, **laying, spreading and compacting** specified graded sand, gravel or any other course material 60% and crushed stone aggregates of granite / trap / basalt 40% in sub-base course including premixing the material at OMC in mechanical mixer (Pug mill), carriage of mixed material up to 1km, spreading in uniform layers with motor grader on a prepared base and compacting with power roller to achieve the desired density including all materials, labour, HOM of machinery, lighting, guarding, barricading and maintenance of diversion complete as per specifications. MORTH Chapter 4 KPWD S.R 2018-19 Page No. 153 I.No. 20.2								
	Mohan Kumar Nagar	Cum							
	W0395		1	77.7	1.00	0.15	11.66		
	W0385		1	80.00	2.00	0.15	24.00		
	W0383		1	80.00	3.00	0.15	36.00		
	W0282		1	44.00	4.00	0.15	26.40		
	W0294		1	60.00	5.00	0.15	45.00		
	W0292		1	56.00	6.00	0.15	50.40		
	W0290		1	57.60	7.00	0.15	60.48		
	W0391		1	84.00	8.00	0.15	100.80		
	W0385		1	111.00	9.00	0.15	149.85		
	W0282		1	110.00	10.00	0.15	165.00		
	300 mm dia NP2 pipe								
	W0302		1	300.00	1.50	0.15	67.50		
	Deduction								
	For Manholes		-80	2.18	1.50	0.15	-39.24		
	Basic rate		1248.00						
	Area Weightage 6%		74.88						

Description of Item	Unit	No.	L(m)	B(m)	D(m)	Qty.	Rate(Rs)	Amount(Rs)
Sub Total		1322.88						
Total		1322.88						
						697.85	1,322.88	923169.28
Part II - CC Road								
KSRRB 300 - **Excavation for road, drains** and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 KPWD S.R 2018-19 Page No. 143 I.No. 19.1								
CC Road								
Mohan Kumar Nagar								
W0395	Cum	1	77.7	3.50	0.45	122.41		
W0385		1	80.00	4.00	0.45	144.00		
W0383		1	80.00	4.00	0.45	144.00		
W0282		1	44.00	3.75	0.45	74.25		
W0294		1	60.00	3.20	0.45	86.40		
W0292		1	56.00	3.00	0.45	75.60		
W0290		1	57.60	3.20	0.45	82.94		
W0391		1	84.00	3.50	0.45	132.30		
W0385		1	111.00	3.20	0.45	159.84		
W0282		1	110.00	3.20	0.45	158.40		
L C R School								
LCR School Road W0092		1	220.00	6.50	1.20	1716.00		
I0047		1	65.00	3.50	1.15	261.63		
W0093		1	114.00	4.00	1.15	524.40		
W0086		1	36.00	4.20	1.15	173.88		
W0045		1	70.00	3.80	1.15	305.90		
W0083		1	114.00	4.00	1.15	524.40		
W0097		1	116.00	4.20	1.15	560.28		
W0098		1	75.00	4.50	1.15	388.13		
CC Drain								
W0395	Cum	2	77.7	1.10	1.15	196.63		
W0385		2	80.00	1.10	1.15	202.40		
W0383		2	80.00	1.10	1.15	202.40		
W0282		2	44.00	1.10	1.15	111.32		
W0294		2	60.00	1.10	1.15	151.80		
W0292		2	56.00	1.10	1.15	141.68		
W0290		2	57.60	1.10	1.15	145.73		
W0391		2	84.00	1.10	1.15	212.52		
W0385		2	111.00	1.10	1.15	280.83		
W0282		2	110.00	1.10	1.15	278.30		
W0302		1	300.00	2.10	1.80	1134.00		
L C R School								
LCR School Road W0092		1	220.00	1.35	1.20	356.40		
I0047		1	65.00	1.35	1.20	105.30		
W0093		1	114.00	1.35	1.20	184.68		
W0086		2	36.00	1.10	1.15	91.08		
W0045		2	70.00	1.10	1.15	177.10		
W0083		2	114.00	1.10	1.15	288.42		
W0097		2	116.00	1.10	1.15	293.48		
W0098		2	75.00	1.10	1.15	189.75		
Culverts								

Sl. No.	Description of Item	Unit	No.	L(m)	B(m)	D(m)	Qty.	Rate(Rs)	Amount(Rs)
			12	5.00	1.20	1.30	93.60		
	Basic rate		130.00						
	Area Weightage 6%		7.80						
	Sub Total		137.80						
	Total		137.80						
							10472.17	**137.80**	**1443065.71**
15	KSRRB 300-Compaction KSRRB 300-58. **Compaction of original ground** with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 KPWD S.R 2018-19 Page No. 147 I.No. 19.64								
	CC Road								
	W0395	Sqm	1	77.7	3.50		272.02		
	W0385		1	80.00	4.00		320.00		
	W0383		1	80.00	4.00		320.00		
	W0282		1	44.00	3.75		165.00		
	W0294		1	60.00	3.20		192.00		
	W0292		1	56.00	3.00		168.00		
	W0290		1	57.60	3.20		184.32		
	W0391		1	84.00	3.50		294.00		
	W0385		1	111.00	3.20		355.20		
	W0282		1	110.00	3.20		352.00		
	L C R School								
	LCR School Road W0092		1	220.00	6.50		1430.00		
	I0047		1	65.00	3.50		227.50		
	W0093		1	114.00	4.00		456.00		
	W0086		1	36.00	4.20		151.20		
	W0045		1	70.00	3.80		266.00		
	W0083		1	114.00	4.00		456.00		
	W0097		1	116.00	4.20		487.20		
	W0098		1	75.00	4.50		337.50		
	Basic rate		6.00						
	Area Weightage 6%		0.36						
	Sub Total		6.36						
	Total		6.36						
							6433.94	**6.36**	**40919.87**
16	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision. (pg no- 153,S.Lno-20.5)KPWD S.R 2018-19								
	CC Road								
	W0395	Cum	1	77.7	3.50	0.15	40.80		
	W0385		1	80.00	4.00	0.15	48.00		
	W0383		1	80.00	4.00	0.15	48.00		
	W0282		1	44.00	3.75	0.15	24.75		
	W0294		1	60.00	3.20	0.15	28.80		
	W0292		1	56.00	3.00	0.15	25.20		
	W0290		1	57.60	3.20	0.15	27.65		
	W0391		1	84.00	3.50	0.15	44.10		

l. o.	Description of Item	Unit	No.	L(m)	B(m)	D(m)	Qty.	Rate(Rs)	Amount(Rs)
	W0385		1	111.00	3.20	0.15	53.28		
	W0282		1	110.00	3.20	0.15	52.80		
	L C R School	Cum							
	LCR School Road W0092		1	220.00	6.50	0.15	214.50		
	I0047		1	65.00	3.50	0.15	34.13		
	W0093		1	114.00	4.00	0.15	68.40		
	W0086		1	36.00	4.20	0.15	22.68		
	W0045		1	70.00	3.80	0.15	39.90		
	W0083		1	114.00	4.00	0.15	68.40		
	W0097		1	116.00	4.20	0.15	73.08		
	W0098		1	75.00	4.50	0.15	50.63		
	Basic rate		1882.00						
	Area Weightage 6%		112.92						
	Sub Total		1994.92						
	Total		1994.92						
							965.09	**1,994.92**	**1925279.94**

17 KSRRB M600-1. Construction of **dry lean cement concrete mix CC1:5:10** with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. . MORTH Specification No. 601KPWD S.R 2018-19 Page No. 174 I.No. 22.1.2

CC Road								
W0395	Cum	1	77.7	3.50	0.15	40.80		
W0385		1	80.00	4.00	0.15	48.00		
W0383		1	80.00	4.00	0.15	48.00		
W0282		1	44.00	3.75	0.15	24.75		
W0294		1	60.00	3.20	0.15	28.80		
W0292		1	56.00	3.00	0.15	25.20		
W0290		1	57.60	3.20	0.15	27.65		
W0391		1	84.00	3.50	0.15	44.10		
W0385		1	111.00	3.20	0.15	53.28		
W0282		1	110.00	3.20	0.15	52.80		
L C R School								
LCR School Road W0092		1	220.00	6.50	0.15	214.50		
I0047		1	65.00	3.50	0.15	34.13		
W0093		1	114.00	4.00	0.15	68.40		
W0086		1	36.00	4.20	0.15	22.68		
W0045		1	70.00	3.80	0.15	39.90		
W0083		1	114.00	4.00	0.15	68.40		
W0097		1	116.00	4.20	0.15	73.08		
W0098		1	75.00	4.50	0.15	50.63		
Basic rate		3665.00						
Area Weightage 6%		219.90						
Sub Total		3884.90						
Total		3884.90						
						965.09	**3,884.90**	**3749283.20**

Sl. No.	Description of Item	Unit	No.	L(m)	B(m)	D(m)	Qty.	Rate(Rs)	Amount(Rs)
18	Constructing un-reinforced, plain cement concrete for pavements using **Grade concrete M30** over a prepared base with OPC coarse aggregate at 0.69 cum, fne aggregates at 0.46 cum,Coarse and fne aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fxed side form work (steel channel, laying and fxing of 125 micron thick polythene flm, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and fnished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint fller, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, fnishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifcations do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fne aggregate 0.46cum. KPWD S.R 2018-19 Page No. 175 I.No. 22.6.1								
	CC Road								
	W0395	Cum	1	77.7	3.50	0.15	40.80		
	W0385		1	80.00	4.00	0.15	48.00		
	W0383		1	80.00	4.00	0.15	48.00		
	W0282		1	44.00	3.75	0.15	24.75		
	W0294		1	60.00	3.20	0.15	28.80		
	W0292		1	56.00	3.00	0.15	25.20		
	W0290		1	57.60	3.20	0.15	27.65		
	W0391		1	84.00	3.50	0.15	44.10		
	W0385		1	111.00	3.20	0.15	53.28		
	W0282		1	110.00	3.20	0.15	52.80		
	L C R School								
	LCR School Road W0092		1	220.00	6.50	0.15	214.50		
	I0047		1	65.00	3.50	0.15	34.13		
	W0093		1	114.00	4.00	0.15	68.40		
	W0086		1	36.00	4.20	0.15	22.68		
	W0045		1	70.00	3.80	0.15	39.90		
	W0083		1	114.00	4.00	0.15	68.40		
	W0097		1	116.00	4.20	0.15	73.08		
	W0098		1	75.00	4.50	0.15	50.63		
	Basic rate		4916.00						
	Area Weightage 6%		294.96						
	Sub Total		5210.96						
	Total		5210.96						
							965.09	**5,210.96**	**5029052.17**
19	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.. KPWD S.R 2018-19 Page No. 176 I.No. 22.7								
	CC Road								
	W0395	Sqm	1	77.7	3.50		272.02		
	W0385		1	80.00	4.00		320.00		
	W0383		1	80.00	4.00		320.00		
	W0282		1	44.00	3.75		165.00		
	W0294		1	60.00	3.20		192.00		
	W0292		1	56.00	3.00		168.00		
	W0290		1	57.60	3.20		184.32		

Sl. No.	Description of Item	Unit	No.	L(m)	B(m)	D(m)	Qty.	Rate(Rs)	Amount(Rs)
	W0391		1	84.00	3.50		294.00		
	W0385		1	111.00	3.20		355.20		
	W0282		1	110.00	3.20		352.00		
	L C R School								
	LCR School Road W0092		1	220.00	6.50		1430.00		
	I0047		1	65.00	3.50		227.50		
	W0093		1	114.00	4.00		456.00		
	W0086		1	36.00	4.20		151.20		
	W0045		1	70.00	3.80		266.00		
	W0083		1	114.00	4.00		456.00		
	W0097		1	116.00	4.20		487.20		
	W0098		1	75.00	4.50		337.50		
	Basic rate		68.00						
	Area Weightage 6%		4.08						
	Sub Total		72.08						
	Total		72.08						
B.	**Part III - Drain & Culvert**								
20	KSRRB M2900-1. **Plain cement concrete M10 mix** with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifcations. MORTH Specifcation No. 408. KPWD S.R 2018-19 Page No. 254 I.No. 34.1						**6433.94**	**72.08**	**463758.54**
	CC Drain								
	W0395	Cum	2	77.7	1.10	0.15	25.65		
	W0385		2	80.00	1.10	0.15	26.40		
	W0383		2	80.00	1.10	0.15	26.40		
	W0282		2	44.00	1.10	0.15	14.52		
	W0294		2	60.00	1.10	0.15	19.80		
	W0292		2	56.00	1.10	0.15	18.48		
	W0290		2	57.60	1.10	0.15	19.01		
	W0391		2	84.00	1.10	0.15	27.72		
	W0385		2	111.00	1.10	0.15	36.63		
	W0282		2	110.00	1.10	0.15	36.30		
	W0302		1	300.00	2.10	0.15	94.50		
	L C R School								
	LCR School Road W0092		1	220.00	1.35	0.15	44.55		
	I0047		1	65.00	1.35	0.15	13.16		
	W0093		1	114.00	1.35	0.15	23.09		
	W0086		2	36.00	1.10	0.15	11.88		
	W0045		2	70.00	1.10	0.15	23.10		
	W0083		2	114.00	1.10	0.15	37.62		
	W0097		2	116.00	1.10	0.15	38.28		
	W0098		2	75.00	1.10	0.15	24.75		
	Culverts								
			12	5.00	1.20	0.15	10.80		
	Basic rate		4226.00						
	Area Weightage 6%		253.56						
	Sub Total		4479.56						
	Total		4479.56						
							572.63	**4,479.56**	**2565145.18**

Description of Item	Unit	No.	L(m)	B(m)	D(m)	Qty.	Rate(Rs)	Amount(Rs)
Providing and laying plain/reinforced cement concrete for side drains using **M20 nominal mix concrete** with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fne aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specifcation No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifcations. -do- Wall & bottom thickness 15cm KPWD S.R 2018-19 Page No. 271 I.No. 37.59.2								
Bottom Raft								
CC Drain								
W0395	Cum	2	77.7	0.90	0.15	20.98		
W0385		2	80.00	0.90	0.15	21.60		
W0383		2	80.00	0.90	0.15	21.60		
W0282		2	44.00	0.90	0.15	11.88		
W0294		2	60.00	0.90	0.15	16.20		
W0292		2	56.00	0.90	0.15	15.12		
W0290		2	57.60	0.90	0.15	15.55		
W0391		2	84.00	0.90	0.15	22.68		
W0385		2	111.00	0.90	0.15	29.97		
W0282		2	110.00	0.90	0.15	29.70		
W0302		1	300.00	1.90	0.20	114.00		
L C R School								
LCR School Road W0092		1	220.00	1.00	0.20	44.00		
I0047		1	65.00	1.00	0.20	13.00		
W0093		1	114.00	1.00	0.20	22.80		
W0086		2	36.00	0.90	0.15	9.72		
W0045		2	70.00	0.90	0.15	18.90		
W0083		2	114.00	0.90	0.15	30.78		
W0097		2	116.00	0.90	0.15	31.32		
W0098		2	75.00	0.90	0.15	20.25		
Culverts								
		12	5.00	1.00	0.15	9.00		
Side Wall								
CC Drain								
W0395		4	77.7	0.15	0.75	34.97		
W0385		4	80.00	0.15	0.75	36.00		
W0383		4	80.00	0.15	0.75	36.00		
W0282		4	44.00	0.15	0.75	19.80		
W0294		4	60.00	0.15	0.75	27.00		
W0292		4	56.00	0.15	0.75	25.20		
W0290		4	57.60	0.15	0.75	25.92		
W0391		4	84.00	0.15	0.75	37.80		
W0385		4	111.00	0.15	0.75	49.95		
W0282		4	110.00	0.15	0.75	49.50		
W0302		2	300.00	0.20	1.20	144.00		
L C R School								
LCR School Road W0092		2	220.00	0.20	0.90	79.20		
I0047		2	65.00	0.20	0.90	23.40		
W0093		2	114.00	0.20	0.90	41.04		
W0086		4	36.00	0.15	0.75	16.20		
W0045		4	70.00	0.15	0.75	31.50		
W0083		4	114.00	0.15	0.75	51.30		
W0097		4	116.00	0.15	0.75	52.20		
W0098		4	75.00	0.15	0.75	33.75		
Culverts								

Description of Item	Unit	No.	L(m)	B(m)	D(m)	Qty.	Rate(Rs)	Amount(Rs)
		24	5.00	0.20	0.90	21.60		
Basic rate		6670.00						
Area Weightage 6%		400.20						
Sub Total		7070.20						
Total		7070.20						
						1355.39	**7,070.20**	**9582884.13**
KSRRB M2200- **TMT/MS Bar Reinforcement** KSRRB M2200-6. Supplying, fitting and placing TMT bar reinforcement in sub-structure complete as per drawing and Technical Specifications complete as per specificationsMORTH Specification No.1600 & 2200 - TMT Bars Fe 500 KPWD S.R 2018-19 Page No. 229 I.No. 28.8.2								
CC Drain								
65 Kg per Cm	Ton					1324.79		
	Kgs					86111.40		
	Ton					86.11		
CC Culvert								
80 Kg per Cm	Ton					30.60		
	Kgs					2448.00		
	Ton					2.45		
Basic rate		68233.00						
Area Weightage 6%		4093.98						
Sub Total		72326.98						
Total		72326.98						
						88.56	**72,326.98**	**6405234.16**
Providing & laying precast drain cover slab of 100 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(0.90 x 0.60 x 0.10) (Approved Data rate)								
Covering Slab								
CC Drain								
W0395	Sqm	2	77.7	0.90		139.90		
W0385		2	80.00	0.90		144.00		
W0383		2	80.00	0.90		144.00		
W0282		2	44.00	0.90		79.20		
W0294		2	60.00	0.90		108.00		
W0292		2	56.00	0.90		100.80		
W0290		2	57.60	0.90		103.68		
W0391		2	84.00	0.90		151.20		
W0385		2	111.00	0.90		199.80		
W0282		2	110.00	0.90		198.00		
L C R School								
LCR School Road W0092		1	220.00	1.00		220.00		
I0047		1	65.00	1.00		65.00		
W0093		1	114.00	1.00		114.00		
W0086		2	36.00	0.90		64.80		
W0045		2	70.00	0.90		126.00		
W0083		2	114.00	0.90		205.20		
W0097		2	116.00	0.90		208.80		
W0098		2	75.00	0.90		135.00		
Data rate		2337.00						
						2507.38	**2,337.00**	**5859740.12**

Description of Item	Unit	No.	L(m)	B(m)	D(m)	Qty.	Rate(Rs)	Amount(Rs)
Providing & laying precast drain cover slab of 250 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(1.2 x 0.60 x 0.10) Approved Data rate(18-11-2016)								
Culvert Slab								
W0302								
CC Culvert		1	300.00	2.10		630.00		
Basic rate		12	5.00	1.20		72.00		
Total		5418.00						
		5418.00						
						702.00	5,418.00	3803436.00
							TOTAL	49286045.52

QUALITY CONSULTANTS Bangalore

CERTIFICATE

Certified that this estimate is prepared based on KPWD SR of Bangalore Circle for the year 2019-20 for most Economical & safe way of executing the work as per the design and drawings, Quantities & Estimates submitted by the Architect

Certificate that, the work spot has been inspected by me & prepared the estimate in most economical way of Excuting the work

The above work is included in

Asst. Engineer
Ward No 42

Asst Executive Engineer
Yashwanthapura Sub Division

Executive Engineer
RR Nagar Division

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ರಾಜರಾಜೇಶ್ವರಿ ನಗರ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಬೆಂಗಳೂರು

BRUHATH BENGALURU MAHANAGARA PALIKE

Comprehensive Development of Roads, Drains, Special repairs to buildings and other works in Sunnadagoodu, Ambedkarnagar, Mohan Kumar nagar, Poornapura, Ramabhovi Colony, Jalahalli Harijana, Siddarthanagar, Khathanagar, Ashrayanagar, Karadigudi, Peenya 4th block A K Colony and Surrounding areas of Slums in R R Nagar Constituency under PACKAGE- 2019-20 RRN-DIV-(13).

Item No.	Particulars	Unit	No	L (m)	B(m)			D (m)	Qty	Rate	Remarks
					B1	B2	(B1+B2)/2				
	1	2	3	4	5	6	7	8	9	10	11
1	SUPPLYING AND FIXING OF LEG PRESS DOUBLE OF SAFE AREA : 2.8MTR X 1.5MTR, CENTER PIPE : 100 NB GI B-CLASS PIPE, SEAT FRAME : 32 NB GI B-CLASS Pipe, BLOCK REST : LLDP Plastic, PIPE CAP : Nylon 66 injection moulded, BEARING HOUSING AND PIN: Seamless Pipe & Round Bar, BEARINGS : PREMENENT SEALED OF REPUTED MAKE (FAG/SKF), STOPER : PU ROD, NUT BLOTS CAP: Nylon 66 injection moulded, NUT BOLTS : HIGH TENSILE STELL, GALVANISED NUT BOLTS, POWDER COAT : DONE BY PURE POLYURETANE POWDER WITH 70-80 MICRON THICKNESS AS PER ENGINEER IN CHARGE OF THE WORK.										
	Leg Press Double										
		Nos	2								
									2.00		
								Total Qty	**2.00**	90000.00	180000.00
2	SUPPLYING AND FIXING OF FUN WALKER DOUBLE OF SAFE AEA : 3MTR X 2MTR, MAIN FRAME : 100 NB GI B-Class Pipe, LEG FRAME:32 NB GI B-CLASS Pipe, HANDLE FRAME :25 NB GI B- CLASS Pipe, FOOT REST: LLDP Plastic, PIPE CAP : Nylon 66 injection moulded, BEARING CAP : Nylon 66 injection moulded, BEARING HOUSING AND PIN : SEAMELESS Pipe & Round Bar, NUT BOLT CAP : Nylon 66 injection moulded, BEARING: PERMANANT SEALED OF REPUTED MAKE (FAG/SKF), NUT BOLTS : HIGH TENSILE STEEL, GALVANISED NUT BOLTS, POWDER COAT : DONE BY PURE POLYURETANE POWDER WITH 70-80 MICRON THICKNESS AS PER ENGINEER INCHARGE OF THE WORK										
	FUN WALKER DOUBLE										
		Nos	3								
									3.00		
								Total Qty	**3.00**	150000.00	450000.00
3	SUPPLYING AND FIXING OF PENDULUM DOUBLE OF SAFE AEA : 2.5MTR X 1MTR, MAIN FRAME : 100 NB GI B-Class Pipe, LEG FRAME:40 NB GI B-CLASS Pipe, HANDLE FRAME :25 NB GI B- CLASS Pipe, SEAT: LLDP Plastic, PIPE CAP : Nylon 66 injection moulded, BEARING CAP : Nylon 66 injection moulded, BEARING HOUSING AND PIN : SEAMELESS Pipe & Round Bar, NUT BOLTS CAP : Nylon 66 injection moulded, BEARING: PERMANANT SEALED OF REPUTED MAKE (FAG/SKF), NUT BOLTS : HIGH TENSILE STEEL, GALVANISED NUT BOLTS, POWDER COAT : DONE BY PURE POLYURETANE POWDER WITH 70-80 MICRON THICKNESS AS PER ENGINEER INCHARGE OF THE WORK										
	PENDULUM DOUBLE										
		Nos	2						2.00		
								Total Qty	**2.00**	90000.00	180000.00

Item No.	Particulars	Unit	No	L (m)	B(m)	D (m)	Qty	Rate	Remarks
4	SUPPLYING AND FIXING OF SHOULDER PRESS DOUBLE OF SAFE AEA : 4MTR X 2.5MTR OF CENTRE PIPE: 100 NB GI B-Class Pipe, SEAT FRAME : 32 NB GI B-Class Pipe, HANDLE FRAME:32 NB & 15 NB GI B-CLASS Pipe, Handle Cover : TPEE injection moulded, SEAT REST: LLDP Plastic, PIPE CAP : Nylon 66 injection moulded, BEARING CAP : Nylon 66 injection moulded, BEARING HOUSING AND PIN : SEAMELESS Pipe & Round Bar, NUT BOLTS CAP : Nylon 66 injection moulded, BEARING: PERMANANT SEALED OF REPUTED MAKE (FAG/SKF), NUT BOLTS : HIGH TENSILE STEEL, GALVANISED NUT BOLTS, NUT BOLT CAP : Nylon 66 injection moulded, POWDER COAT : DONE BY PURE POLYURETANE POWDER WITH 70-80 MICRON THICKNESS AS PER ENGINEER INCHARGE OF THE WORK								
	SHOULDER PRESS DOUBLE								
		Nos	2				2.00		
						Total Qty	**2.00**	180000.00	360000.00
5	SUPPLYING AND FIXING OF CYCLE TWO WAY OF SAFE AEA : 2.5MTR X 1MTR, MAIN FRAME : 100 NB GI B-Class Pipe, ARM FRAME:40 NB GI B-CLASS Pipe, HANDLE FRAME :20 NB GI B- CLASS Pipe, SEAT: LLDP Plastic, PIPE CAP : Nylon 66 injection moulded, BEARING CAP : Nylon 66 injection moulded, BEARING HOUSING AND PIN : SEAMELESS Pipe & Round Bar, NUT BOLTS CAP : Nylon 66 injection moulded, BEARING: PERMANANT SEALED OF REPUTED MAKE (FAG/SKF), NUT BOLTS : HIGH TENSILE STEEL, GALVANISED NUT BOLTS, POWDER COAT : DONE BY PURE POLYURETANE POWDER WITH 70-80 MICRON THICKNESS AS PER ENGINEER INCHARGE OF THE WORK								
	CYCLE TWO WAY								
		Nos	2				2.00		
						Total Qty	**2.00**	105000.00	210000.00
6	SUPPLYING AND FIXING OF TAI CHI SPINNER DOUBLE OF SAFE AEA : 2MTR DIA, MAIN FRAME : 100 NB GI B-Class Pipe, HANDLE FRAME:32 NB GI B-CLASS Pipe, SPINNING RING: LLDP Plastic, PIPE CAP : Nylon 66 injection moulded, BEARING CAP : Nylon 66 injection moulded, BEARING HOUSING AND PIN : SEAMELESS Pipe & Round Bar, NUT BOLTS CAP : Nylon 66 injection moulded, BEARING: PERMANANT SEALED OF REPUTED MAKE (FAG/SKF), NUT BOLTS : HIGH TENSILE STEEL, GALVANISED NUT BOLTS, POWDER COAT : DONE BY PURE POLYURETANE POWDER WITH 70-80 MICRON THICKNESS AS PER ENGINEER INCHARGE OF THE WORK								
	TAI CHI SPINNER DOUBLE								
		Nos	3				3.00		
						Total Qty	**3.00**	90000.00	270000.00
7	SUPPLYING AND FIXING OF TWISTER THREE WAY OF SAFE AEA : 2.5 MTR DIA, MAIN FRAME : 100 NB GI B-Class Pipe, ARM FRAME:32 NB GI B- CLASS Pipe, HANDLE FRAME:20 NB GI B-CLASS Pipe, TWISTER DISC: LLDP Plastic, PIPE CAP : Nylon 66 injection moulded, BEARING CAP : Nylon 66 injection moulded, BEARING HOUSING AND PIN : SEAMELESS Pipe & Round Bar, NUT BOLTS CAP : Nylon 66 injection moulded, BEARING: PERMANANT SEALED OF REPUTED MAKE (FAG/SKF), NUT BOLTS : HIGH TENSILE STEEL, GALVANISED NUT BOLTS, POWDER COAT : DONE BY PURE POLYURETANE POWDER WITH 70-80 MICRON THICKNESS AS PER ENGINEER INCHARGE OF THE WORK								
	TWISTER THREE WAY								
		Nos	2				2.00		
						Total Qty	**2.00**	90000.00	180000.00

Item No.	Particulars	Unit	No	L (m)	B(m)	D (m)	Qty	Rate	Remarks
8	SUPPLYING AND FIXING OF CHEST PRESS DOUBLE OF SAFE AEA : 4MTR X 2.5MTR OF CENTRE PIPE: 100 NB GI B-Class Pipe, SEAT FRAME : 32 NB GI B-Class Pipe, HANDLE FRAME:32 NB & 15 NB GI B-CLASS Pipe, Handle Cover : TPEE injection moulded, SEAT REST: LLDP Plastic, PIPE CAP : Nylon 66 injection moulded, BEARING HOUSING AND PIN : SEAMELESS Pipe & Round Bar, BEARING: PERMANANT SEALED OF REPUTED MAKE (FAG/SKF), NUT BOLTS CAP : Nylon 66 injection moulded, NUT BOLTS : HIGH TENSILE STEEL, GALVANISED NUT BOLTS, POWDER COAT : DONE BY PURE POLYURETANE POWDER WITH 70-80 MICRON THICKNESS AS PER ENGINEER INCHARGE OF THE WORK								
	CHEST PRESS DOUBLE								
		Nos	1				1.00		
						Total Qty	**1.00**	180000.00	180000.00
9	SUPPLYING AND FIXING OF FUN ROVER OF SAFE AEA : 2.5MTR X 1.5MTR, MAIN FRAME : 80 NB GI B-Class Pipe, SEAT FRAME:80 NB GI B-CLASS Pipe, HANDLE FRAME: 32NB GI B- CLASS PIPE, SEAT: LLDP Plastic, PIPE CAP : Nylon 66 injection moulded, BEARING CAP : Nylon 66 injection moulded, BEARING HOUSING AND PIN : SEAMELESS Pipe & Round Bar, NUT BOLTS CAP : Nylon 66 injection moulded, BEARING: PERMANANT SEALED OF REPUTED MAKE (FAG/SKF), NUT BOLTS : HIGH TENSILE STEEL, GALVANISED NUT BOLTS, POWDER COAT : DONE BY PURE POLYURETANE POWDER WITH 70-80 MICRON THICKNESS AS PER ENGINEER INCHARGE OF THE WORK								
	FUN ROVER								
		Nos	3				3.00		
						Total Qty	**3.00**	62000.00	186000.00
10	SUPPLYING AND FIXING OF FUN RIDER OF SAFE AEA : 2.5MTR X 1.5MTR, MAIN FRAME : 80 NB GI B-Class Pipe, SEAT FRAME:80 NB GI B-CLASS Pipe, HANDLE FRAME: 32NB GI B- CLASS PIPE, SEAT: LLDP Plastic, PIPE CAP : Nylon 66 injection moulded, BEARING CAP : Nylon 66 injection moulded, BEARING HOUSING AND PIN : SEAMELESS Pipe & Round Bar, NUT BOLTS CAP : Nylon 66 injection moulded, BEARING: PERMANANT SEALED OF REPUTED MAKE (FAG/SKF), NUT BOLTS : HIGH TENSILE STEEL, GALVANISED NUT BOLTS, POWDER COAT : DONE BY PURE POLYURETANE POWDER WITH 70-80 MICRON THICKNESS AS PER ENGINEER INCHARGE OF THE WORK								
	FUN RIDER								
		Nos	1				1.00		
						Total Qty	**1.00**	150000.00	150000.00
11	SUPPLYING AND FIXING OF STEP TRAINER OF SAFE AEA : 3MTR X 1.5MTR, MAIN FRAME : 100 NB GI B-Class Pipe, BOTTOM FRAME:40 NB GI B-CLASS Pipe, HANDLE FRAME: 32NB &15 NB GI B- CLASS PIPE, Handle cover: TPEE injection moulded, FOOTREST: LLDP Plastic, PIPE CAP : Nylon 66 injection moulded, BEARING CAP : Nylon 66 injection moulded, BEARING HOUSING AND PIN : SEAMELESS Pipe & Round Bar, NUT BOLTS CAP : Nylon 66 injection moulded, BEARINGS: PERMANANT SEALED OF REPUTED MAKE (FAG/SKF), NUT BOLTS : HIGH TENSILE STEEL, GALVANISED NUT BOLTS, POWDER COAT : DONE BY PURE POLYURETANE POWDER WITH 70-80 MICRON THICKNESS AS PER ENGINEER INCHARGE OF THE WORK								
	STEP TRAINER								
		Nos	2				2.00		
						Total Qty	**2.00**	181500.00	363000.00

Item No.	Particulars	Unit	No	L (m)	B(m)	D (m)	Qty	Rate	Remarks
12	SUPPLYING AND FIXING OF ROLLING BARREL DOUBLE OF SAFE AEA : 2.8MTR X 1.5MTR OF CENTRE PIPE: 100 NB GI B-Class Pipe, SEAT FRAME : 32 NB GI B-Class Pipe, BACK REST: LLDP Plastic, SEAT REST: LLDP Plastic, FOOT REST: LLDP Plastic, PIPE CAP : Nylon 66 injection moulded, BEARING CAP : Nylon 66 injection moulded, BEARING HOUSING AND PIN : SEAMELESS Pipe & Round Bar, BEARING: PERMANANT SEALED OF REPUTED MAKE (FAG/SKF), NUT BOLTS CAP: Nylon 66 injection moulded, NUT BOLTS : HIGH TENSILE STEEL, GALVANISED NUT BOLTS, POWDER COAT : DONE BY PURE POLYURETANE POWDER WITH 70-80 MICRON THICKNESS AS PER ENGINEER INCHARGE OF THE WORK								
	ROLLING BARREL DOUBLE								
		Nos	2				2.00		
						Total Qty	2.00	144000.00	288000.00
13	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification								
	Gym Platform	Sqm							
		Sqm	1	0.70		2.10	1.47		
	Steps	Sqm	1	1.00		1.90	1.90		
		Sqm	1	1.55		4.00	6.20		
		Sqm	1	31.00		2.30	71.30		
	Platform Concrete	Sqm							
	30+9.30	Sqm	1	39.30		6.94	272.74		
	For Seating Platform at Outdoor Gym 1(Jp Park Main Gate)								
	Platform		1	21.50		1.15	24.73		
	Outdoor Gym 2								
	Gym Platform (3.1412*6.48*6.48)=131.9		1	131.90			131.90		
	For Seating Platform at Outdoor Gym 2(JP Park Near Musical fountain)								
	LHS Platform		1	15.55		1.14	17.73		
	RHS Platform		1	13.00		1.14	14.82		
	Pathway		1	14.90		2.35	35.02		
	Outdoor Gym 3								
	Gym Platform (3.1412*15.9*15.9)/4=198.53		1	198.53			198.53		
	For Seating Platform at Outdoor Gym 3(JP Park Muthayalanagar Gate)								
	Platform		1	14.28		1.10	15.70		
	Pathway		1	6.25		2.50	15.63		
							-250.00		
						Total Qty	557.66	1290.00	719379.00
								Total Rs.	3716379.00
								Misellenous	3621.00
									3720000.00

CERTIFICATE

CIVIL QUALITY CONSULTANTS & ENGINEERS Bangalore

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಬೆಂಗಳೂರು

(3)

Item No.	Particulars	Unit	No	L (m)	B(m)	D (m)	Qty	Rate	Remarks
1	Certified that this estimate is prepared based on KPWD SR of Bangalore Circle for the year 2019-20 for most Economical & safe way of executing the work as per the design and drawings, Quantities & Estimates submitted by the Architect								
2	Certificate that, the work spot has been inspected by me & prepared the estimate in most economical way of Excuting the work								
3	The above work is included in								

Asst. Engineer
Ward No 42

Asst Executive Engineer
Yashwanthapura Sub Division

Executive Engineer
RR Nagar Division

ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಆರ್.ಆರ್. ನಗರ ವಿಭಾಗ
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BRUHATH BENGALURU MAHANAGARA PALIKE

Comprehensive Development of Roads, Drains, Special repairs to buildings and other works in Sunnadagoodu, Ambedkarnagar, Mohan Kumar nagar, Poornapura, Ramabhovi Colony, Jalahalli Harijana, Siddarthanagar, Khathanagar, Ashrayanagar, Karadigudi, Peenya 4th block A K Colony and Surrounding areas of Slums in R R Nagar Constituency under PACKAGE- 2019-20 RRN-DIV-(13).

Item No.	Particulars	Unit	No	L (m)	(B1+B2)/2	D (m)	Qty	Rate	Remarks
	1	2	3	4	7	8	9	10	11
1	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications(Page - 25/ Item no.5.6)								
	BR	4596.00	275.76	4871.76					
	Play ground For Foundation		1	70.00	0.60	0.70	29.40		
		Cum					29.40	4871.76	143230.00
2	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. (Page - 13/ Item no.4.6)								
	BR	5483.00	328.98	5811.98					
		Cum	21	0.60	0.60	0.90	6.80		
		Cum	1	17.40	7.30	0.10	12.70		
	(Page.18/Item No.4.49.1) 2016-17.					Total Qty	19.51	5811.98	113368.00
	Basic Rate	5879.00							
	Aear weightage 8%	470.32							
	Total Rate	6349.32							
3	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification								
	For Seating Platform at Outdoor Gym 1(Jp Park Main Gate)								
	Platform		1	21.50	1.15		24.73		
	Outdoor Gym 2								
	Gym Platform		1	131.90			131.90		
	For Seating Platform at Outdoor Gym 2(JP Park Near Musical fountain)								
	LHS Platform		1	15.55	1.14		17.73		
	RHS Platform		1	13.00	1.14		14.82		
	Pathway		1	14.90	2.35		35.02		
	Outdoor Gym 3								
	Gym Platform (3.1412*15.9*15.9)/4=198.53		1	198.53			198.53		
	For Seating Platform at Outdoor Gym 3(JP Park Muthayalanagar Gate)								
	Platform		1	14.28	1.10		15.70		

Item No.	Particulars	Unit	No	L (m)		D (m)	Qty	Rate	Remarks
	Pathway								
			1	6.25	2.50		15.63		
	Gym-1		Jalahaali Govt School						
	Gym-2	Cum	1	3.14*12.3*12.3/4			118.76		
	gym-2 Deduction.	Cum	1	17.80	7.50		133.50		
		Cum	-1	1.20	1.20		-1.44		
		Cum	-1	0.90	0.60		-0.54		
		Cum	-1	1.50	0.90		-1.35		
	Flooring area			1.80	1.80		-3.24		
							158.00		
						Total Qty	**857.74**	1250.00	1072174.00
4	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete								
							130.00		
						Total Qty	**130.00**	350.00	45500.00
5	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineerin - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete)(Page - 266/ Item no.37.2)								
	BR	859.00	51.54	910.54					
	Add MS poles		35	3.30					
		Mtr					115.50		
							115.50	910.54	105167.00
6	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint.(Page - 266/ Item no.37.4)								
	BR	408.00	24.48	432.48					
		Mtr	3	70.00					
		Mtr					210.00		
							210.00	432.48	90821.00
7	Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint.(Page - 266/ Item no.37.3)								
	BR	715.00	42.90	757.90					

Item No.	Particulars	Unit	No	L (m)	D (m)	Qty	Rate	Remarks
		Sqm	1	70.00	2.80	196.00		
						196.00	757.90	148548.00
							Total Rs.	1718808.00
							Misc	1192.00
								1720000.00

CIVIL QUALITY CONSULTANTS & ENGINEERS Bangalore

CERTIFICATE

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No	Description of work	Unit	No	Dimensions L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	Earthwork in surface excavation in **ordinary soil** for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeeding 50 m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and nealty dressed as per specifications								
	(P.No.5, I.No.2.1 of PW,P & IWTD S.R 2018-19)								
		Cum	1	13.30	5.80	0.24	18.57		
2	KSRB -2-2.1 : Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, **in ordinary soil** not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. after breaking of clods complete as per specifications.					Say	18.57	**169.56**	**3148.71**
	(P.No.5, I.No.2.3 of PW,P & IWTD S.R 2018-19)	Cum							
	For Footigs								
	F1		2	13.75	1.15	1.20	37.95		
	F2		3	3.55	1.15	1.20	14.70		
	C/C Length of Load Bearing Wall		8	1.20	0.75	0.75	5.40		
			6	1.50	0.75	0.75	5.06		
			2	4.80	0.75	0.75	5.40		
			2	4.25	0.75	0.75	4.78		
							73.29		
3	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix M7.5 with OPC cement @ 180 kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 5.75 cum machine mixed, concrete laid in layers not exceeding 15 cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specification.					Say	73.30	**322.92**	**23670.04**
		Cum							
	(P.No.12, I.No.4.3 of PW,P & IWTD S.R2018-19)								
	For Footigs								
	F1		2	13.75	1.15	0.15	4.74		
	F2		3	3.55	1.15	0.15	1.84		
	C/C Length of Load Bearing Wall		8	1.20	0.20	0.15	0.29		
			6	1.50	0.20	0.15	0.27		
			2	4.80	0.75	0.15	1.08		
			2	4.25	0.75	0.15	0.96		
							9.18		
						Say	9.20	**5510.16**	**50693.47**

BBMP

	Description of work	Unit	No	Dimensions			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
0	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @320kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregates @ 0.459cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walla (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, structs, buttresses, string or lacing courses, parpets, coping, bed blocks, anchor, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing complete as per specification. Specification No. KBS 4.1, 4.6 (P.No. 13/4.11)	**Cum**							
	(P.No.13, I.No.4.11 of PW,P & IWTD S.R 2018-19)								
	Ground Floor								
	Plinth Beam								
	PB (150 x 300mm)		2	12.75	0.15	0.15	0.57		
			3	4.55	0.15	0.15	0.31		
			8	1.20	0.15	0.15	0.22		
			6	1.50	0.15	0.15	0.20		
			2	4.80	0.15	0.15	0.22		
			2	4.25	0.15	0.15	0.19		
							1.71		
	Lintels Above								
	D1		2	0.90	0.15	0.15	0.04		
	V		14	0.90	0.15	0.15	0.28		
							0.32		
	Roof Beam								
	B1 (150 x 300mm)		1	39.15	0.15	0.150	0.88		
							0.88		
	Roof Slab		1	12.80	5.40	0.15	10.37		
							10.37		
						Say	**13.28**	**6528.60**	**86696.54**
5	Providing and removing centering, shuttering, strutting, propping etc., an removal of form work for sides & soffits of beams, beam hauncing cantilever girders, bressumers & lintels & not exceeding 1.0 in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2	**Sqm**							
	(P.No.16, I.No.4.34 of PW,P & IWTD S.R2018-19)								
	For Ground floor								
	Plinth Beam								
	PB (150 x 300mm)		4	12.75	--	0.15	7.65		
			6	4.55	--	0.15	4.10		
			16	1.20	--	0.15	2.88		
			12	1.50	--	0.15	2.70		
			4	4.80	--	0.15	2.88		
			4	4.25	--	0.15	2.55		
	Roof Beam								
	B1 (150 x 300mm)		2	39.15	--	0.150	11.75		
	Lintels Above								
	D1		2	1.8	--	0.15	0.54		
	Base		2	0.6	0.15	--	0.18		
	V		14	1.8	--	0.15	3.78		
	Base		14	0.6	0.15	--	1.26		
							40.26		
						Say	40.30	**315.36**	**12709.01**

BBMP

No	Description of work	Unit	No	Dimensions			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
	Providing and removing **centering, shuttering,** strutting, propping etc., and removal of form work **for flat surface** such as suspended floors, **roofs, landings, balconies** and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.3								
	(P.No.15, I.No.4.30 of KPWD S.R 2018-19)								
	Roof Slab		1	12.80	5.20	--	66.56		
	Edge		2	12.80		0.15	3.84		
			2	5.20		0.15	1.56		
							71.96		
						Say	72.00	**475.20**	**34214.40**
7	Providing and laying in position reinforced cement cocnrete of design mix M20 with OPC cement @ 27.20 Kgs with 12mm & down sizes graded grantie metal coarse aggregated @ 0.5865 cum & fine aggregates, @ 0.391 Cum with super super plastisiser @ 0.225 Ltrs maichine mixed well compacted **plain chajja 8.50 Cms** avg thickness, up to ground floor level including removing centering, shuttering, strutting, propping etc., and removal of form work for cost of all materials, laobur HOM of machinary, curing complete as per specification.	**Sqm**							
	(P.No.14, I.No.4.19 of PW,P & IWTD S.R 2018-19)								
	Toilet D		2	0.90	0.30	--	0.54		
	V		14	0.60	0.30	--	2.52		
							3.06		
						Say	3.10	**475.20**	**1473.12**
8	Providing and **removing centering,** shuttering, strutting, propping etc., for **chajjas**, corbels of all shapes & sizes, at all elevations & heights.								
	(P.No.17, I.No.4.37 of PW,P & IWTD S.R 2018-19)								
	Toilet								
	D		4	0.9	0.3	--	1.08		
	V		28	0.6	0.3	--	5.04		
							6.12		
						Say	6.20	**348.84**	**2162.81**
9	Providing **TMT Steel reinforcement** for RCC works including straightening, cutting, bending, hooking, placing in position lapping and / or welding wherever required, tieng with binding wire and anchoring to the adjoining members wherever necessary, complete as per design (laps, hooks and wastage shall not be measured and paid) cost of all materials, labour, HOM of machineries etc., complete as per specifications. Specification No.KBS 4.6.3. **FOR TMT Bars Fe- 500**	**Tonne**							
	(P.No.17 I.No.4.46.2 of KPWD S.R 2018-19)								
	For Toilet					180.00	307.19		
	For Plinth Beams **180 Kg/Cum**					150.00	48.60		
	For Lintel **140 Kg/Cum**					160.00	140.94		
	For Roof Beams 150 **Kg/Cum**					102.00	1057.54		
	For Roof Slabs 95 **Kg/Cum**						1554.27		
							1.554		
						Say	1.56	**76643.28**	**119563.52**
10	Providing & Constructing Granite/ trap/basalt size stone Masonary in basement with Cement morter 1:8 edges of stone chistle dressed in courses not less than 15 cms high, bond stones at two mtr apart in each course including cost of all materials, labour, curing complete as per specifications								
	(P.No.23, I.No.5.9of PW,P & IWTD S.R 2018-19)	**Cum**							

BBMP

	Description of work	Unit	No	Dimensions L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	Ground Floor								
	For First Course		2	13.20	0.60				
			3	4.10	0.60	0.60	9.50		
	For Second Course		2	13.05	0.45	0.60	4.43		
			3	4.25	0.45	0.45	5.29		
			8	1.20	0.45	0.45	2.58		
			6	1.50	0.45	0.45	1.94		
			2	4.80	0.45	0.45	1.82		
			2	4.25	0.45	0.45	1.94		
						0.45	1.72		
							29.23		
						Say	29.30	5921.64	173504.05
	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. In depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5m including cost of all labour complete as per specifications.No.KBS 2.9 (P.No.6, I.No.2.10 of PW,P & IWTD S.R 2018-19)	Cum							
	For Footings Only 40% of Qty		--		--	--	--		
							29.32		
						Say	29.40	217.08	6382.15
	Providing and constructing Pre cast solid blocks with Compressive strength not less than 35 kg/ sqm with cement morter 1:4 masonary (quion, Jamb, closer block) with solid concrete blockx of size **40 x 15 x 20 cms** confirming to IS 2185/1965 in super structures including cost of materials, labour charges, scaffolding, curing complete as per specifications. (P.No.27, I.No.5.26.2.1of KPWD S.R 2018-19)	Sqm							
	Ground Floor								
	C/C Length of Load Bearing Wall								
			2	12.60	--	3.00	75.60		
			3	4.70	--	3.00	42.30		
	Deduction of openings.						117.90		
	D1		2	0.90	--	2.1	3.78		
	V		2	0.60		0.6	0.72		
							-4.50		
						Net Qty	113.40		
						Say	113.50	997.92	113263.92
13	Providing & constructing non load bearing walls cemect **concrete solid blocks** with compressive strength not less than 35 kg/sqm with cement morter 1:4 (jamb, closer blocks) with blocks of size **40X10X20**. (LXBXH) confirming to I.S. : 2185/1965 in super structure including cost of materials, labour charges, scaffolding, curing complete as per specification. (P.No.27, I.No.5.28 of KPWD S.R 2018-19)	Sqm							
	Ground Floor								
	C/C Length of Non Load Bearing Wall (Partition Wall)		8	1.20	--	2.10	20.16		
			6	1.50	--	2.10	18.90		
			2	4.80	--	2.10	20.16		
			2	4.25	--	2.10	17.85		
	Deductions for openings								
	Openings		-14.00	0.75	--	2.10	-22.05		
							55.02		
						Say	55.02	875.88	48190.92
14	Providing 18mm thick cement plaster in single coat with cement mortor 1:3 to Brick masonary including rounding off corners wherver required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (P.No.116, I.No.15.15 of PW,P & IWTD S.R2018-19)	Sqm							
	For Out Side								

	Description of work	Unit	No	Dimensions L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	Ground floor								
	Total Length For Walls		1	34.60	--	3.250	112.45		
	Total Qty of Chajja's		14	3.10			43.40		
	Deductions for openings						155.85		
	D	-0.5	2.00	0.75	--	2.10	-1.58		
	V	-0.5	14.00	0.60	--	1.20	-5.04		
						Net Qty.	149.24		
						Say	149.30	298.08	44503.34
15	Providing **18mm** thick cement plaster in single coat with cement mortor **1:4, to brick masonry** including rounding off corners wherver required smooth rendering.: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.(**internal)**								
	(P.No.116, I.No.15.16 &15.33 of KPWD S.R2018-19)	**Sqm**							
	Toilet								
	--								
	Long Wall		2	12.60	--	2.875	72.45		
	Short Wall		3	4.70	--	2.875	40.54		
	Wc		8	1.20	--	2.100	20.16		
			6	1.50	--	2.100	18.90		
			2	4.80	--	2.100	20.16		
	Total		2	4.25	--	2.100	17.85		
	Deduction						190.06		
	D1	-1	2.00	0.90	--	2.10	-3.78		
	D2	-1	14.00	0.75	--	2.10	-22.05		
	V	0.5	14.00	0.60	--	1.20	5.04		
							-20.79		
						Net Qty	169.27		
						Say	169.30	**281.88**	47722.28
16	Providing 12mm thick cement plaster in single coat with cement mortor 1:3, to **ceiling** including rounding off corners wherver required smooth rendering.: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.								
	(P.No. 116 I.No.15.21 & 15.33 of PW,P & IWTD S.R2018-19)								
	For ceiling								
	Ground Floor	**Sqm**							
			1	12.40	4.50	--	55.80		
							55.80		
17	Providing INTEGRAL CRYSTALINE Waterproofing treatment to the sunken portion of toilets. Using Crystalline Slurry of approved make @ 1.40 kg per SQM in two coats (0.7 Kg per coat) confirming to ASTM S 1202 & DINV 18998 standards.								
	(P.No.268 I.No.38.11 of KPWD S.R 2018-19)	Sqm							
						Say	56.00	**253.80**	**14212.80**
	Toilet Slab								
18	Providing and fixing of factorymade 30 mm P.V.C door frame of size 50x47 mm with a wall thickness of 5 mm made out of extrued 5 mm rigid PVC foamsheet metered cut at cornwers & jointed 2 nos 150 mm long brackets of 15 x 15 mm MS Square tube, the entire door frame to be reinforced with 19 x 19 m square tube of 19 gauge. the door frame to be fixed to the wall using MS screws of 65 /80 mm size complete as per manufacturers specification& directions of Engineer in charge.		1	12.80	5.40		69.1	**464.40**	**32099.33**
	(P.No.60, I.No.9.84 of KPWD S.R 2018-19)	**Sqm**							
	Ground floor								
	D2		2	0.90	--	2.10	3.78		

BBMP

Description of work	Unit	No	Dimensions			Quantity	Rate in Rs.	Amount in Rs.
			L	B	D			
		14	0.75	--	2.10	22.05		13055.52
					Say	25.83	505.44	
Providing & fixing 30mm thick factory made **rigid foam Panelled Door** Shutters made from M.S. tube of 19 gauge thickness, size 19 x 19mm for styles and 15 x 15mm for top and bottom rails, covered with heat moulded PVC channel of 5mm thick sheet & 30 x 50mm wide to form styles & 5mm thick & 75mm wide PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick 20mm wide PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet fitted in the M.S. Frame, Sealed to the styles & rails with 5 x 30mm PVC sheet beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75 mm Aluminium hinges.								
(P.No.60, I.No.9.93 of KPWD S.R 2018-19)								
Ground floor								
D2		2	0.90	--	2.10	1.80		
D2		14	0.75	--	2.10	22.05		
						23.85		
					Say	23.90	2999.16	71679.92
KSRB 7.7 : Providing and fixing in position in cement concrete 1:3:6 steel glazed windows and ventilators side hung/top hung fully openable as per approved drawings using Z angles of 25x33x3mm, weighing 1.419 kg/m both for outer and inner frames and central mullion section of size 25x46x3mm weighing 2.28 Kg/m duly providing T section 19x19x3mm weighing 0.839 kg/m for glazing of windows not more than 34 cms. c to c including providing and fixing 4mm. thick reeded glass with teakwood beading of required size, all steel sections should confirm to I.S. 7452 : 1990, 4nos, of holdfasts of approved size, section should be cut to length welded and electrically grinded subdividing frames of unit shall be tenonned and revetted into the frames electrically. All the steel surface shall be throughly cleaned free of rust and painted with one coat of anti-corosive paint and finishing with two coats of ready mix paint of approved colour and make including cost of materials, fixtures, labour, and HOM of machinery complete as	**Sqm**							
(P.No.34, I.No7.7of PW,P & IWTD S.R 2018-19)	Sqm							
Ground floor								
V		14	0.60	---	0.60	5.04		
						5.04		
					Say	5.10	4209.84	21470.18
21 KSRB 8.2 : Providing and fixing in position black cuddapah slab / Shahabad Slab/Thandur blue slab 4 cms thick for roofing laid to line and level over wooden rafters or RCC battens pointing exposed joints with cement mortar 1:4 including cost of materials, labour, curing complete as per specifications.								
(P.No.48 I.No.8.2 of PW,P & IWTD S.R 2018-19)								
Urian								
For Side		3	1.20	1.50	--	5.40		
						5.40		
					Say	5.40	686.88	3709.15

BBMP

Providing **ceramic** [illegible] for flooring, treads of steps and landings laid on a bed of 12mm thick cement mortor 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications. size 30x30cms	**Sqm**							
(P.No.108 I.No.14.36.1 of PW,P & IWTD S.R 2018-19)								
Ground floor								
Wc		8	1.0	1.2	--	9.60		
Bath		6	1.2	1.5	--	10.80		
Passage		2	1.5	4.8	--	14.40		
		2	1.5	4.9	--	14.70		
Skirting 15 %						7.43		
						56.93		
					Say	57.00	**1306.80**	**74487.60**
KSRB 14-17.2: Providing skirting, dado, rises of steps with **colour glazed tiles** on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications.	**Sqm**							
Colour glazed tiles 15×15cms 6mm thick with border of size 15×15x6cms.								
(P.No.109 I.No.14.41.1 of PW,P & IWTD S.R 2018-19)								
Ground floor								
For WC		8	4.40	--	1.50	52.80		
For WC		6	5.40	--	1.50	48.60		
						101.40		
Deducations								
D2		-14	0.75		1.50	-15.75		
						-15.75		
						85.65		
					Say	85.70	**1377.00**	**118008.90**
KSRB 15.14.1 : Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.								
(P.No.119, I.No.15.49.1 of PW,P & IWTD S.R 2018-19)								
Ground Floor								
Qty same as inside plastering	**Sqm**	--	--	--	--	169.30		
Deduct tiles & granite cladding area						-85.70		
						83.60		
					Say	84.00	**118.80**	**9979.20**
KSRB 15.14.1 : Providing and applying two coats with oil bound washable distemper of approved brand and shade on **Ceiling** surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.								
(P.No.117, I.No.15.49& 15.50.2 of PW,P & IWTD S.R 2018-19)								
Same as internal & wide item no 13								
Ground Floor								

	Description of work	Unit	No	Dimensions			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
	Qty same as inside plastering	Sqm	--	--	--	--	56.00		
							56.00		7136.64
						Say	56.00	127.44	
	KSRB 15.16 : Water proof cement paint KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint with primer of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. 2) '--do with Primer--								
	(P.No.124/15.53.2)	Sqm							
	(P.No.120, I.No.15.53.2 of PW,P & IWTD S.R 2018-19)								
	Ground floor								
	Qty same as outside plastering		--	--	--	--	149.30	110.16	16446.89
									1150184.42
	PLUMBING AND SANITARY WORKS								
	SANITARY FIXTURES								
	KSRB 11-3 : Providing and fixing white vitreous china clay, water closet Indian type (Squatting pan) of size 580mm with footrests, 100mm S or P trap, (approved make) cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.								
	(P.No.79, I.No.12.3 of KPWD S.R2018-19)	Each							
			8				8.00		
						Say	8.00	1437.48	11499.84
	KSRB 11-7.1 : Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm with 5 litres PVC automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11								
	(P.No.80, I.No.12.7 of KPWD S.R2018-19)	Each							
			3				3.00		
						Say	3.00	3317.76	9953.28
	Providing & fixing CI Nahani trap of approved make confirming to ISI specification and construction of cistren in M 15 as per directions								
	1. 10.0 cms x 7.5 cms	Each							
	(P.No.90, I.No.12.113 of KPWD S.R 2018-19)		18				18.00		
						Say	18.00	270.00	4860.00
	Providing and fixing in position **CP bib cock** of approved quality 20 mm nominal bore including cost of all materials, labour and HOM of equipments with alll leads complete as per specifications.								
	(P.No.93, I.No.13.24 of KPWD S.R2018-19)	Each							
	All floors		20				20.00		
						Say	20.00	186.84	3736.80
	KSRB 11-11.4 : Providing and fixing white vitreous china clay, flat back wash basin size 550x400mm with a single 15mm C.P brass pillar tap with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11								
	(P.No.83, I.No.12.26 of PW, P& IWTD SR 2018-19)	Nos							
			4				4.00	3262.68	13050.72
	INTERNAL SEWERAGE SYSTEM								

KSRB 13-9 : Providing . Medium density polyethylene pipes 6.00 kgf /sqcm working pressure ---- mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor in								
a) 75 mm dia (P.No.96, I.No.13.70.2 of KPWD S.R 2018-19)	M	1	20		20.00	352.08	7041.60
b) 90 mm dia (P.No.96, I.No.13.70.3 of KPWD S.R 2018-19)	M	1	35		35.00	410.40	14364.00
c) 110 mm dia (P.No.96 I.No.13.70.4 of KPWD S.R 2018-19)	M	1	45		45.00	486.00	21870.00
INTERNAL WATER SUPPLY SYSTEM							
KSRB13 .85: Providing and fixing to wall, ceiling and floor chlorinated poly vinyl chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all cpvc plain and brasss threaded fittings including fixing thepipes with the clamp at 1.00mtr spacing . This includes joining of pipes fittings with one set of cpvc solvent cement and testing of joints complete (Internal works) (Concealed work including cutting chases and good the walls etc.)							
A) 15mm dia pipe nominal OD pipes (P.No.99, I.No.13.86.1 of KPWD S.R2018-19)	M	1	45		45.00	222.48	10011.60
B) 20 mm dia pipe nominal OD pipes (P.No.99, I.No.13.86.2 of KPWD S.R 2018-19)	M	1	35		35.00	253.80	8883.00
KSRB 13-6.3-1: Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) NB including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification no: KBS 13.2.6/							
a) of 20mm dia (P.No.93, I.No.13.33 of KPWD S.R 2018-19)	Nos	1	15		15.00	362.88	5443.20
b) of 25mm dia (P.No.93, I.No.13.34 of KPWD S.R 2018-19)		1	15		15.00	484.92	7273.80
Polyethylene water storage tank of specified capacity and (**P.No.XXVI, I.No.679 of PW, P& IWTD SR 2018-19**) 500 ltrs	Nos	1	2000		2000.00	5.08	10160.00
EXTERNAL WATER SUPPLY							
KSRB13 .87: Providing and fixing to wall, ceiling and floor chlorinated poly vinyl chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all cpvc plain and brasss threaded fittings including fixing thepipes with the clamp at . This includes joining of pipes fittings with one set of cpvc solvent cement and testing of joints complete (**External works**)							
20 mm dia pipe nominal OD pipes (P.No.99, I.No.13.87.2 of KPWD S.R2018-19)	Mtr	1	25		25.00	157.68	3942.00
25 mm dia pipe nominal OD pipes (P.No.99, I.No.13.87.3 of KPWD S.R 2018-19)	Mtr	1	35		35.00	193.32	6766.20
EXTERNAL SEWERAGE SYSTEM							
KSRB 13-9 : Providing and fixing to wall, ceiling and floor , high **density** polyethylene pipes **6.00 kgf /sqcm working pressure 110 mm** outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor in							
b) 110 mm dia (P.No.96, I.No.13.71 of KPWD S.R2018-19)	Mtr	1	15		15.00	253.80	3807.00

No	Description of work	Unit	No	Dimensions L	B	D	Quantity	Rate in Rs.	Amount in Rs.
38	Providing stone ware gully trap of approved quality and fixing in C C 1:2:4 and plastering with C M 1:3 where ever necessary (Rate including cost of all materials, fixtures and lead).								
	(P.No.90, I.No.12.112 of KPWD S.R 2018-19)								
	Size: 15 cm x 10 cm	Each							
39	KSRB 12-8.1 : Constructing brick masonry inspection chamber 450x450mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover with frame (light duty) 455x450 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M15 with 20mm and downsize granite metal, foundation concrete M5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications.		1	4			4.00	**205.20**	**820.80**
	(P.No.75, I.No.11.50.2 of KPWD S.R 2018-19)								
40	Supplying, installation, testing and commissioning of solar hot water heater comprising of solar Flat Plate Collector (FPC) of size 2120x1040x100mm and stainless steel hot water storage tank with stainless steel heat exchanger absorber made of copper sheet and copper tube of following capacity aluminium box collector with appropriate capacity electrical back up arrangement excluding inlet and out let pipes.SS Model with 100mm thick of 48Kg/M3 density Rock wool insulation with 22SWG Aluminium cladding. 200 Liter capacity I.No 8.3.3 300 Liter capacity P.No 51 & 52	Each	2	4			8.00	**9169.20**	**73353.60**
		Each	2				2.00	**60000.00**	**120000.00**
									336837.44
								Electrical Charges	**25000.00**
								Sub Total	**15,12,021.86**

CERTIFICATE

1 Certified **that this estimate is prepared based on KPWD SR of Bangalore Circle for the year 2018-19 ,ESR 2019-20 & prevailing market rates for most Economical & safe way of executing the work as per the design and drawings, Quantities & Estimates submitted by the Architect**

2 Certificate **that, the work spot has been inspected by me & prepared the estimate is most economical way of Excuting the work**

3 The above **work is included in**